Fontys University of Applied Sciences

Event manager

Project Plan

**ProP**

**Code Embassy**

Ivelin Slavchev

Vasil Sirakov

Lyubomir Yankov

Marina Tzenkova

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# Project Statement

## Formal Client

The client of the project is a company that organizes musical festivals and events. The client has an event planned and needs a system to help manage it.

## Project Team

Ivelin Slavchev

[i.slavchev@student.fontys.nl](mailto:i.slavchev@student.fontys.nl)

Vasil Sirakov

[v.sirakov@student.fontys.nl](mailto:v.sirakov@student.fontys.nl)

Lyubomir Yankov

[l.yankov@student.fontys.nl](mailto:l.yankov@student.fontys.nl)

Marina Tzenkova

[m.tzenkova@student.fontys.nl](mailto:m.tzenkova@student.fontys.nl)

## Current Situation

The company wants to organize a music festival that starts on Friday evening and lasts the whole weekend. The event will take place near camping “Park Kuierpad”. The company needs a software system that can be used to manage the whole event.

## Problem Description

The system will be composed of several applications, which will be used to manage activities at the event. The system must also provide additional information to the festival organization:

* Current status of a certain visitor
* The transaction history of a certain visitor
* Expected visitors
* Current number of visitors
* Visitors that have left the festival
* Total balance of all event-accounts
* Total money spent by visitors at the event
* Number of booked camping spots and revenue generated from them
* Free camping spots
* Revenue of each shop
* Sold units of each offered article

## Project Goal

The goal of this project is to provide an intuitive and reliable system for managing music festivals. The system must be able to provide solutions to all of the highlighted problems and must be easy to use.

## Project Deliverables and Non-Deliverables

The deliverables for the project are:

* Web application for ticket purchases
* Well-designed database
* Application for entrance at the event
* Application for entrance at the camping place
* Application for shop management
* Application for stand for borrowing items
* Application for leaving the event
* Application that provides statistics about the event
* Application to process PayPal information

The project non-deliverables are:

* Source code of the application
* User manual
* Code tests

## Project Constraints

**Constraint 1: Client availability**

Limited amount of meetings with the client.

**Constraint 2:** **Time**

Project must be finished in 4 months.

**Constraint 3: Technological**

Development of applications will be done on Windows operating system using C#.

Development of web application will be done using Java.

**Constraint 4: Team size**

Team size is limited to 4 members.

## Project Risks

**Risk 1: Deliverables not presented on time**

*Probability:* Low

*Impact:* Medium

*Steps to prevent:* Keep track of agenda and schedules.

*Clean up action:* Present deliverables as soon as possible.

**Risk 2:** **Client not satisfied with deliverables**

*Probability:* Low

*Impact:* High

*Steps to prevent:* Have frequent meetings with client and stick to created plan.

*Clean up action:* Discuss needed changes and apply them.

**Risk 3: Unpredicted technical difficulties**

*Probability:* Medium

*Impact:* Medium

*Steps to prevent:* Practice and research planned technologies.

*Clean up action:* Ask more experienced member or a technical expert for ways to solve the difficulties.

**Risk 4: Team member unavailable due to sickness**

*Probability:* Medium

*Impact:* Medium

*Steps to prevent:* Live a healthy lifestyle.

*Clean up action:* Distribute workload across available members.

**Risk 5: Technical update breaks system**

*Probability:* Low

*Impact:* High

*Steps to prevent:* Check update features and changes.

*Clean up action:* Develop system to work with the new update, if not possible revert to previous working version.

**Risk 6: Servers not supporting chosen web framework**

*Probability:* Medium

*Impact:* High

*Steps to prevent:* Add framework support to servers.

*Clean up action:* Change web framework or set up own server.

**Risk 7: Database corruption**

*Probability:* Very low

*Impact:* Very high

*Steps to prevent:* Back up sensitive data.

*Clean up action:* Create database using backups or begin anew.

**Risk 8: Host server fail**

*Probability:* Very low

*Impact:* Very high

*Steps to prevent:* Back up development.

*Clean up action:* Deploy on a working server.

# Project Phasing

# 

Design

Initiation

Build

Deploy

Test

Test system

Build system

Design system

Start-up

project

Deploy system

Document project

Build database

**M5**

**M4**

**M3**

**M2**

**M1**

wk1 wk3 wk6 wk13 wk15 wk16

*Figure 1. Activities and milestones*

## Phase 1: Initiation

Activity: Start-up project

Tasks for the activity are:

1. Interview client
2. Discuss current situation, problems, desired end situation
3. Set the project goal
4. Organize the team
5. Organize resources

Estimated duration is two weeks.

Deliverables for milestone **M1** are:

* Project plan - first version
* Group name and logo

## Phase 2: Documentation and Design

Activity: Document project

Tasks for the activity are:

1. Finish project plan
2. Finish setup document
3. Provide process reports

Estimated duration is two weeks.

Activity: Design system

Tasks for the activity are:

1. Design classes and methods
2. Design database
3. Design user interface of website
4. Design applications

Estimated duration is three weeks.

Deliverables for milestone **M2** are:

* Project plan
* Setup document
* Process report
* Database ERD
* Static version of website

## Phase 3: Build

Activity: Build system

Tasks for the activity are:

1. Develop back-end of web application
2. Build application for entrance to the event
3. Develop application for camping
4. Build app for shop management
5. Develop app for loan stands
6. Build application for leaving the event
7. Develop app for statistics
8. Implement PayPal log support

Estimated duration is six weeks.

Activity: Build database

Tasks for the activity are:

1. Build database from ERD
2. Populate database

Estimated duration is one week.

Deliverables for milestone **M3** are:

* Web application
* App for entering event
* App for camping
* App for shop management
* App for loan stands
* App for leaving event
* App for statistics
* PayPal support
* Populated database

## Phase 4: Test

Activity: Test system

Tasks for the activity are:

1. Connect system with database
2. Conduct both user and unit tests
3. Observe results
4. Improve system if needed

Estimated duration is two weeks.

Deliverables for milestone **M4** are:

* Tested system connected with a database

## Phase 5: Deploy

Activity: Deploy system

Tasks for the activity are:

1. Deploy system for use
2. Create a presentation

Estimated duration is one week.

Deliverables for milestone **M5** are:

* Deployed system and database
* Presentation